



GAU2131

PATENT
(5181-64800/P4979)

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/653,227
Filed: August 31, 2000
Inventor(s):
Traversat et al

Examiner: Unknown
Group/Art Unit: 2131
Atty. Dkt. No: 5181-64800

Title: MESSAGE
AUTHENTICATION
USING MESSAGE GATES
IN A DISTRIBUTED
COMPUTING
ENVIRONMENT

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, Washington, DC 20231, on the date indicated below.

Robert C. Kowert

Name of Registered Representative

Robert C. Kowert Aug. 10, 2001
Signature Date

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicant requests consideration of ☒ the references listed on the attached Form PTO-1449 and/or ☐ the additional information identified below in paragraph 3. A copy of each reference listed on the Form PTO-1449 is enclosed.

1. This Information Disclosure Statement is submitted:

- a. ☐ within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
☐ within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;
☒ before the mailing date of a first Office Action on the merits; or
☐ before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.
- b. ☐ after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus: ☐ the certification of paragraph 2 below is provided, or ☐ a fee of \$180.00 is enclosed.

- c. ☐ after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.

2. It is hereby certified:

☐ that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:

4. For each non-English language reference listed on the attached Form PTO-1449:

☐ reference is made to an English language translation submitted herewith, and/or

☐ reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or

☐ reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or

☐ reference is made to the concise explanation contained in the specification of the present application at page(s) _____, and/or

☐ reference is made to the concise explanation set forth below:

5. ☐ Applicant also offers the following comments for the Examiner's consideration:

6. ☐ Also enclosed is a copy of a foreign search report citing these references.


7. ☐ The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.

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8. ☐ Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

If any required fees are missing, the Commissioner is authorized to charge said fees to Conley, Rose & Tayon, P.C. Deposit Account No. 50-1505/5181-64800.

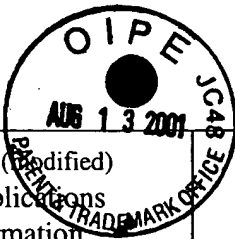
Respectfully submitted,



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Form PTO-1449 (Modified)

List of Patents and Publications
For Applicant's Information
Disclosure Statement
(Use several sheets if necessary)

ATTY. DKT. NO. 5181-64800

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

B1	"Java TM Remote Method Invocation Specification," Sun Microsystems, Inc., <java.sun.com/products/dk1.2beta1>, 1997.
B2	Agha, et al., "Actorspaces: An Open Distributed Programming Paradigm," University of Illinois, Report No. UIUCDCS-R-92-1766, Open Systems Laboratory TR NO. 8, pp. 1-12, November 1992.
B3	Ahmed, et al., "A Program Building Tool for Parallel Applications," Yale University, pp. 1-23, December 1, 1993.
B4	Aldrich, et al., "Providing Easier Access to Remote Objects in Client-Server Systems," System Sciences, 1998, Proceedings of the 31 st Hawaii Internat'l. Conference, Jan. 6-9, 1998, pp. 366-375.
B5	Aldrich, et al., "Providing Easier Access to Remote Objects in Distributed Systems," Calif. Institute of Technology, www.cs.Caltech.edu/%7Ejedi/paper.html, Nov. 21, 1997.
B6	Anderson, et al., "Persistent Linda: Linda + Transaction + Query Processing," Proceedings of the 13 th Symposium on Fault Tolerant Systems, pp. 93-109, 1991.
B7	"Transparent Network Computing," Locus Computing Corporation, January 5, 1995.
B8	Alexander, et al., "Active Bridging," Proceedings of the ACM/SIGCOMM'97 Conference, Cannes, France, September, 1997.
B9	Beech, et al., "Object Databases as Generalizations of Relational Databases," Computer Standards & Interfaces, Vol. 13, Nos. 1/3 pp. 221-230, Amsterdam, NL, January 1991.
B10	Bertino, et al., "Object-Oriented Database Management Systems: Concepts and issues," Computer, Vol. 24, No. 4, pp. 33-47, Los Alamitos, CA, April 1991.
B11	Betz, et al., "Interoperable Objects: Laying the Foundation for Distributed Object Computing," Dr. Dobb's Journal, Vol. 19, NO. 11, page 18(13), October 1994.
B12	Bevan, et al., "An Efficient Reference Counting Solution To The Distributed Garbage Collection Problem," Parallel Computing, NL, Elsevier Science Publishers, Amsterdam, Vol. 9, No. 2, pages 179-192, January 1989.
B13	Birrell, et al., "Distributed Garbage Collection for Network Objects," Digital Systems Research Center, NO. 116, pages 1-18, December 15, 1993.
B14	Birrell, et al., "Grapevine: An Exercise in Distributed Computing," Communications fo the ACM, Vol. 25, No. 4, pp. 260-274, April 1982.
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B16	Birrell, et al., "Implementing Remote Procedure Calls," ACM Transactions on Computer Systems, Vol. 2, No. 1, pp. 39-59, February 1994.
B17	Birrell, et al., "Network Objects," Operating Systems Review, 27(5), pp. 217-230, December 1993.
B18	Cannon, et al., "Adding Fault-Tolerant Transaction Processing to LINDA," Software-Practice and Experience, Vol. 24(5), pp. 449-466, May 1994.
B19	Cardelli, "Obliq, A Lightweight Language For Network Objects," Digital SRC, pp. 1-37, November 5, 1993.
B20	Carriero, et al., "Distributed Data Structures in Linda," Principles of Programming Language, pp. 1-16, 1986.

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Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)		ATTY. DKT. NO. 5181-64800 APPLICANT: Traversat et al. FILING DATE: August 31, 2000	SERIAL NO. 09/653,227 GROUP: 2131
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
	B21	Carriero, et al., "Distributed Data Structures in Linda," Yale Research Report YALEU/DCS/RR-438, November 1985.	
	B22	Chung, et al., "A Tiny' Pascal Compiler: Part 1: The P-Code Interpreter," BYTE Publications, Inc., September 1978.	
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	B26	Dijkstra, "Self-stabilizing Systems in Spite of Distributed Control," Communications of the ACM, Vol 17, No. 11, pp. 643-644, November 1974.	
	B27	Dolev, et al., "On the Minimal Synchronism Needed for Distributed Consensus," Journal of the ACM, Vol. 34, NO. 1, pp. 77-97, January 1987.	
	B28	Dollimore, et al., "The design of a System for Distributing Shared Objects," The Computer Journal, No. 6, Cambridge, GB, December 1991.	
	B29	Dourish, "A Divergence-Based Model of Synchrony and Distribution in Collaborative Systems," Xerox Technical Report EPC-1194-102, pp. 1-10, 1994.	
	B30	Drexler, et al., "Incentive Engineering for Computational Resource Management," The Ecology of Computation, Elsevier Science Publishers B.V., pp. 231-266, 1988.	
	B31	Gelernter, et al., "Parallel Programming in Linda," Yale University, pp. 1-21, January 1995.	
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	B33	Emms, "A Definition Of AN Access Control Systems Language," Computer Standards And Interfaces, Vol. 6, No. 4, pp. 443-454, January 1, 1997.	
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	B36	Gottlob, et al., "Extending Object-Oriented Systems with Roles," ACM Transactions On Information Systems, Vol. 14, NO. 3, pp. 268-296, July 1996.	
	B37	Gray, et al. "Leases: An Efficient Fault-Tolerant Mechanism for Distributed File Cache Consistency," ACM, pp. 202-210, 1989.	
	B38	Guth, "JavaOne: Sun to Expand Java Distributed Computing Effort," < http://www.sunworld.com/swol-02-1998/swol-02-sunspots.html >, XP-002109935, p.1, February 20, 1998.	
	B39	Guyennet, et al., "A New Consistency Protocol Implemented in the CaliF System," IEEE, 1094-7256/97, pp. 82-87, 1997.	

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	B40	Guyennet, et al., "Distributed Shared Memory Layer for Cooperative Work Applications," IEEE, 0742-1303/97, pp. 72-78, 1997.
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	B45	Howard, et al., "Scale and Performance in a Distributed File System," ACM Transactions on Computer Systems, Vol. 6, No. 1, pp. 51-81, February 1988.
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	B49	Rosenberry, et al., "Understanding DCE," Chapters 1-3, 6, 1992.
	B50	Sharrott, et al., "ObjectMap: Integrated High Performance Resources into a Distributed Object-oriented Environment," ICODP, 1995.
	B51	Stevenson, "Token-Based Consistency of Replicated Servers," IEEE, CH2686-4/89/0000/0179, pp. 179-183, 1989.
	B52	Thompson, "Regular Expression Search Algorithm," Communications of the ACM, Vol. II, No. 6, p. 149 et seq., June 1968.
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	B57	Wu, "A Type System For An Object-Oriented Database Systems," Proceedings of the International Computer Software and Applications Conference (COMPSAC), Tokyo, Japan, pp. 333-338, Sept. 11-13, 1991.
	B58	Yemini, et al., "Towards Programmable Networks," IFIP/IEEE International Workshop on Distributed Systems: Operations and Management, L'Aquila, Italy, October 1996.
	B59	Yin, et al., "Using Leases to Support Server Driven Consistency in Large-Scale Systems," Computer Services Department, University of Texas at Austin, p. 285-294, May 26-28, 1998.

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B60	Yin, et al., "Volume Leases for Consistency in Large-Scale Systems," IEEE Transactions on Knowledge & Data Engineering, Vol. 11, No. 4, pp. 563-576, July/August 1999.
B61	Mitchell, et al., "An Overview of the Spring System," February 1994.
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B63	McDaniel, "An Analysis of a Mesa Instruction Set," Xerox Corporation, May 1982.
B64	McGrath, "Discovery and its Discontents: Discovery Protocols for Ubiquitous Computing," Presented at Center for Excellence in Space Data and Information Science, NASA Goddard Space Flight Center, April 5, 2000.
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B70	IBM TM Technical Disclosure Bulletin, "Object Location Algorithm," Vol. 36, No. 09B, pp. 257-258, September 1993.
B71	IBM, "Chapter 6 - Distributed SOM (DSOM)," SOMobjects Developer Toolkit Users Guide, Version 2.1, pages 6-1-6-90, October 1994.
B72	Anonymous, "Change-Notification Service for Shared Filed," IBM Technical Disclosure Bulletin, Vol. 36, No. 8, pages 77-82, XP002109435 New York, US, November 1973.
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B77	Jones, et al., "Garbage Collection: Algorithms for Automatic Dynamic Memory Management," pages 165-175, John Wiley & Sons, 1996.
B78	Kambhatla, et al., "Recovery with Limited Replay: Fault-Tolerant Processes in Linda," Oregon Graduate Institute, Technical Report CSIE 90-019, pp. 1-16, September 1990.
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